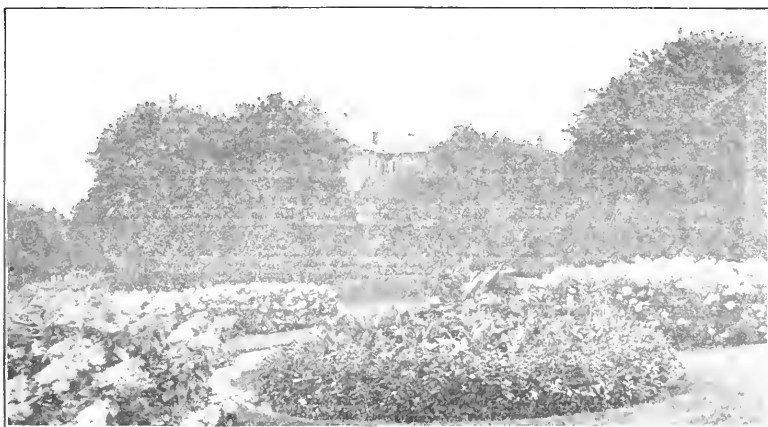


The Normal Herald



ON THE CAMPUS OF INDIANA NORMAL

INDIANA, PENNSYLVANIA

“Requisites of a Text-Book on Algebra”

J. C. SMITH

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The Normal Herald

VOL. XIII.

INDIANA, PA., OCTOBER, 1907.

No. 4.

Published Quarterly by the Trustees of the State Normal School, of Indiana, Pennsylvania.

REQUISITES OF A TEXT- BOOK ON ALGEBRA.

J. C. Smith, Head of Department of
Mathematics, Indiana

In recent years we have witnessed a strong demand for a better algebra for secondary schools. One cause of this demand is the great crowding of the school curricula by new studies ranging from kindergarten work to university work. Here the element of time is the important one. Another factor which acts here is the greatly increased demand on the part of the teachers of the physical sciences for a more thorough working knowledge of algebra and of mathematics in general. We must not fail to mention as one large cause the rapidly increasing knowledge of mathematics on the part of secondary teachers trained in university methods. Men engaged in teaching in engineering and technical schools have done their part, brushing away, with the rude hand of the man-of-affairs, the traditions and idols of the past.

It is unfortunate that this demand did not spring up much ear-

lier. This finds its explanation, in part, in the artificial partition of what should be the one science, mathematics. This treatment of mathematics has acted prejudicially on the progress of the student and retardingly on the writers of text-books. It has resulted in the stereotyping of the processes of mathematical teaching and of the subjects taught, and this has gone even into the minor details of the text-books.

We have seen many efforts to meet this demand. Among the causes of the failure of some of the writers who have attempted to meet this demand, we may mention the tremendous force of conservatism.

Bound by the traditional form of the text-book on algebra, they have been unable to improve it, though injecting some new and good features. Here we see the notable conservatism produced by years of training in the university, as student and instructor. These writers have simply loaded up the text-book on algebra with a mass of undigested matter. We can say further that much of this injected mat-

ter can not be incorporated into secondary work.

There have been some, more or less, successful attempts to break away from the traditional form. By these authors the table of contents order has been improved; for example, the careful discussion of the equation comes early in the work. Yet these writers have not succeeded in untrammeling themselves in the respect most important. The early development of algebra took place in the dim and distant past, and the human race has forgotten the slow and faltering steps by which it has reached the present fruition. This has resulted in our adopting, in the presentation of mathematical truths, of what may be called the logical order, as opposed to the pedagogical. The value of the pedagogical order will become apparent as we proceed.

We may fairly assume that mathematics was, in its early development, inductive; but algebra has been so long cultivated that the inductive steps in the progress have been forgotten, and our authors have felt compelled to present the subject deductively, with the result that the young have been forced to travel in a direction opposite to that which the race pursued. Not only in the matter of method, have we neglected the dictates of history, but with respect to matter and concepts, also. Concepts which are the fruit of centuries of

labor are injected into the beginning of the work, as is illustrated by some of the definitions of magnitude found on the first page of some algebras. In the matter of rigor, too, the same mistake has been made by men who entertain the academic view that rigor is not a matter of degree.

Certain principles may be laid down which must be followed to secure the pedagogical order in the presentation of the topics. Algebra should be vitally connected with arithmetic which precedes it and with physical science which follows it. The modern view that education is development through work, as opposed to the classic tradition that is education through instruction, must be kept in view. When the author has led the student to feel the need of a definition, the definition should be introduced, and when the need of a proof is felt the proof may be introduced. The passing from one topic to another should be through the concrete, problems being our instrument in bridging the chasm.

Algebra, considered as an instrument, is the science of the equation. In view of this the equation should be introduced early, and kept in view. The student of physical science realizes that many physical truths can be presented in any one of the three arithmetic forms in the form of an equation, a proportion, or a variation. A thorough

knowledge of these three forms and their inter-relation is necessary to progress in the physical sciences. The teacher of physics is disgusted to find that the student can not solve the equation for g , g being one of the early letters of the alphabet.

In explanation of our first rule we note that algebra is the generalization of arithmetic. The principles should be presented in the arithmetic form and then transformed into the algebraic form. While the student should be led from a study of arithmetic forms to a concept of algebraic, he should at the same time receive much drill in passing from the formula to the numerical values, a process which a large number of students never learn. In so far as algebra is a preparation, it is a preparation for higher mathematics, the physical sciences, and the other sciences which utilize mathematics. The parts of algebra which are needed in physical science and which should receive full attention, even at the expense of much other matter, are the following: the equation, proportion, variation, graphs, the four forms into which the student of physical science throws a truth.

Our teachers of mathematics have not kept pace with the progress in other lines. One of the fundamental tenets of the new pedagogy is that development comes through work. This doctrine, car-

ried out in the physical sciences, has resulted in a large amount of laboratory work, a field where the methods are radically different from the methods of the old classroom instruction. Through this method of teaching, the student learns initiative, self-reliance, and versatility. Except in a few schools, the laboratory method has not been introduced into algebra teaching even by name. Contrast the training received in a well-equipped, well conducted chemical laboratory, a training tending to produce capable, self-reliant men-of-affairs, with the old method of classroom instruction, in which the teacher is the central power plant. The text-books on algebra have made no provision for such instruction.

Closely connected with the foregoing is the matter of the introduction of formal proofs and definitions. It is generally recognized that a mathematical proof, for example, which leaves it uncertain for many pages whether the demonstration is tending is bad. Similarly a method of presentation which involves a refinement of definition and a rigor of demonstration, far in advance of the mental position of the student, is bad. Laboratory methods are the proper ones to bring the student to see the importance of rigor and accuracy, and laboratory methods in the physical sciences have shown us the need of

putting on the brakes, at least in the case of the instructor, in this matter of rigor and accuracy.

We can not always lay the blame for the failure of a campaign on the private soldier and yet we blame the teacher for her failure to build up in the minds of the student a connected whole, although the matter in the text-book, itself, is thoroughly disjoined. Further, the poor school teacher is hampered, in the work of putting flesh on this skeleton, by the superintendent setting limits in the amount of work to be done, in the matter of time and in the matter of text used. Thus the teacher is not in a position to build the bridges from one topic to another and the text-book must supply this need by concrete examples and problems.

The foregoing suggests that certain parts of our subject must receive much more attention from teacher, and taught, and the question arises how we can find the time. Time may be gained by a better ordering of the topics, by relegating some to the appendix, and eliminating some altogether. Long division should be delayed, most of factoring, also. Highest common factor and least common multiple, by division, the associative and similar laws, proof of the binominal theorem and some other formal demonstrations should be sent to the rear.

Perhaps there is a book which

approaches the requirements. If not, may it not be long in forthcoming.

—o—

THE SENIOR HAY RIDE.

Mrs. Pearl B. Heckel.

On the morning of September thirteenth—Monday—three big hay wagons and a carriage drove up before the north door of John Sutton Hall. The middle class, almost on the instant, filled up the wagons with themselves and drove off. In some way, however, the fact early dawned upon them that a hay ride belongs to an Indiana class only once in its lifetime and that they were mistaking their day. What at first looked like a "middler" function soon righted itself, and the senior hay ride was on.

The Honorable Summers M. Jack had invited the class to spend the day at the Country Club.

A more creditable confusion of bells, horns, flying colors, class and school yells, and laughter never attracted more attention in the streets of Indiana and brought the farmers to their front doors all along the way to the grounds.

Doctor Ament and Miss Leonard reached the club house before the wagons arrived, and when these unloaded their freight of students, a great fire of logs was roaring a welcome in the open fireplace. The morning was chill, just chill enough for a vigorous good time, and an oc-

casional appreciative gathering around the fire.

The woods were inviting, the canoes were inviting, the feast at midday was inviting — everything was inviting, and all the invitations were accepted.

Truly, is there any event in the normal school life happier than this annual hay ride? A getting beyond halls and books into the out-of-doors, into the fresh air and the open woods, with all the wholesome jollity of a company having nothing to do for one whole day except to have a good time and to be altogether alive.

That night, somewhat late for dinner, the '08 class,—tired and hoarse and rich in new memories of school days—filed into the dining hall. Nobody was hungry, for nobody had ceased eating from the time the wagons reached the first down-town fruit store in the morning until they had passed the last country orchard in the evening. The appearance of the seniors as they found places around the tables spoke of the woods and, incidentally, of sundry trudgings along roads where the mud was too deep for horses:

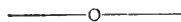
The day was at an end, and the happy time had come when the seniors, in recounting school pleasures, could begin as do all the alumni, "When we had our hay ride."

SOCIETY NOTES

Open Meeting of Huyghenian Society.

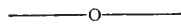
The Huyghenian literary society held its first open meeting on Saturday evening, October 5, with a carefully prepared program.

The program was followed by an attentive audience. The Court Scene from the "Merchant of Venice", the representation from Shakespeare's "Seven Ages of Man", "The Bandolero", sung by Mr. Ralph Hastings, and the declamation by Mr. Preston Urey were particularly well received.



Open Meeting of the Erodelpian Society.

The Erodelpian Society reports a great increase of interest in the work of the new year. Its first open meeting was held Saturday evening, October 12. A regular program was rendered, with the exception of a pantomime, "A Bachelor's Reverie". The debate was especially enjoyable, and the subject timely and worthy of discussion.



The Faculty Reception.

The formal reception to the students was given by the faculty, September 21. After the students were presented to the faculty, they were sent to get acquainted with each other. This object was accomplished by the novel plan of giving

to several parties slips bearing the same numbers and then sending the students to find those holding corresponding numbers with the instruction to tell them ten things about themselves. This resulted in a pleasant, merry evening.

—o—

A TRANSFORMATION.

Dorothy Cogswell.

"The art of a thing is first, its aim, and next its manner of accomplishment."

The old student returning in September, the new one, and patrons leaving the train at the Campus Station, at the foot of "Lovers' Lane," flanked by long, wide hedges of hydrangias with their wealth of blossoms nodding and courtesying in the breeze like colonial dames in powdered wig and green silken gowns at some ceremonious gathering, giving admiring glances at the huge pyramidal beds of flaming cannas, passing on under the interlacing boughs of noble trees, resembling a cathedral nave, or, leaving that ugly pile of dingy red brick yecept the Pennsylvania station, and approaching north entrance thru the gateway in the closely-clipped hedge, past the ivy-covered walls of the Training school and Jane Leonard Hall, conspicuous for its fine architecture on the one side, and the grove of stately oaks on the other, were all conscious of the beauty of

the loveliest Normal School campus in Pennsylvania, of which trustee J. Wood Clark is the custodian, watching carefully that nothing unsightly appears and feeling as does Dr. Ament, the Principal, that the aesthetic plays a large part in the culture of the individual in its silent influence. As the throng approached the Administration building, exclamations were heard in excited tones, "O! look at the new porch; isn't it dandy?" for with the average girl and youth now, everything is "dandy," from fudge to the pictured Madonna and glowing sunset. The adjective was, however, expressive of sincere admiration, for instead of the little weather-worn door-wide balcony, upheld by brackets, there was a Grecian porch surmounting the broad steps leading to the North door, in dignified lines with pillars gleaming white against the brick walls softened and darkened in color by decades of battle with the elements, and further beautified by the green of the luxuriant ivy. The facade of the porch attracted much attention because of the panel with its "I. S. N. S." in crimson and slate. Old Indiana's colors, and the wrought-iron lanterns in special designs hanging from wall brackets.

Dr. Ament, who is not only an educator, but architect and artist as well, made the plans and supervised all the improvements about the building, made possible by the gen-

erosity of the trustees, culminating in a delightful surprise to the older students and teachers.

Passing into the vestibule, over the old stone threshold worn down in the doorway by the countless footsteps of Alma Mater's children and friends, (which stone, by the way, Dr. Ament would not have removed)—and looking down the long hall through its inner doors, their voices were heard in ecstatic shrieks of "O! O! isn't this just grand?" "See! O, look!" and what wonder? The "former things had passed away." Instead of the dingy, knotty, much-mopped rough floor, there was one of hard-wood, narrow boards, laid diagonally and stained a soft, mottled green, the four stairways receiving the same treatment, and rubber runners to deaden the footfall.

The disfigured grey walls, plaster-patched, with blemishes and penciled initials had disappeared, and instead a warm ecru ceiling and side walls with a wainscoting or dado of dull green burlap. The unsightly electric wiring had been concealed behind a massive oak cornice at the ceiling angles, all the woodwork varnished, and not a dingy corner anywhere. The long two-armed metal chandeliers and suspended bulbs are gone and large ground glass spheres in the ceiling cover a cluster of lights excepting near the exits, where the globes are red. Every newel-post has brass

standard lights. The radiators are painted green and the fire hose, coiled on the rough board shelves, has been enclosed in paneled cabinets of dark oak, supported on curved brackets, and their tops bear replicas of famous sculpture. A life-size bust of the valorous "Ajax," with helmeted head, is opposite the library. "Leucothia," a famous cast of the sea divinity, on the cabinet opposite the elevator entrance, while the Goddess of Youth and cup-bearer to the gods, the Hebe of Canova occupies a place of honor opposite Miss Leonard's room. Canova, it will be remembered, is the first sculptor to whom is due the honor of raising the tastes of the public and teaching it what to admire. Opposite the office door, on a pedestal, is a bust of Augustus Caesar.

The "Venus di Milo" occupies a place in the center of the long hall in spite of the fact that one of the uninitiated exclaimed on seeing it first, "I should think they might have found an image with arms to set upon that shelf."

The dominating piece of sculpture is that of the Goddess of Wisdom, the Minerva Guistiniana, full size, a perfect replica of the original in the Vatican, standing in the East corridor in silent majesty. Wicker divans are in the central part of the hall for the comfort of those waiting for the elevator, or for the social tete-a-tete. An ob-

long opening has been made opposite the reading room at the first landing of the North stairs lighting the hitherto dark descent, and a growing fern placed there.

At the Northeast corridor is the telephone booth and waiting-room. The telephones are in the vestibule, "behind closed doors," and the waiting-room is furnished with grass rug, divan, desk and chairs of "crex" making, a restful place for the "Hello girl" and telephone patrons.

One of the most striking improvements in the hall is the treatment of the elevator, which formerly resembled a prison cell or animal cage—standing black, square and hard. Dr. Ament designed a shaft of a Moorish or modified Alhambric architecture in white and gold, making it an ornament instead of an eyesore, while the elevator fulfills its mission of transportation "to realms above."

A compelling, irresistible place is the "Red Room," as the alcove reception room is most frequently called. The fairy wand was waved and a great square opening in the room adjoining Recreation Hall appeared, making it a part of the main hall. The upper walls are in a tapestry design in reds, browns and olives, and the dado a dark red burlap with oak mouldings. The rugs are red Wilton velvet in oriental pattern, the furniture dark red leather, overstuffed, consisting

of a davenport, divan, arm chairs, rockers, ottomans and a side table of oak in artistic lines. In the center of the room is a circular divan surmounted by a gorgeous electrolier, the design an Egyptian dancing girl, leaning against a banana tree, the lights appearing in flower-like globes from under the leaves. On the side of the room next to "Rec Hall" is an oak mantel with pedestal pillars upon which are placed a lovely bit of Parian marble and a lamp of bronze in Roman design, its little taper always burning like the Vestal altar fires. On the shelf, backed by a mirror, is a bronze figure of "Lulli" with his violin, as the boy whom the Chevalier de Guise, a French nobleman, while traveling in Italy in 1645, found and presented to Mademoiselle Montpensier, in fulfillment of an exacted promise, the boy becoming in after years a famous composer and musician in the court of Louis XIV.

In a corner of the room on a handsome oak pedestal is a copy of that masterpiece of modern art, "The Victory of Berlin," commemorating the victory of 1871 and the Union of Germany. There is an archway opening into the Recreation hall on one side of the mantel and a semi-circular opening on the other, containing a jardiniere of flowers.

The "Red Room" is the scene of little gatherings of teachers and

students and is a great factor in the sociability of the school, the open fire and western sun shining through the figured red Madras draperies at the windows lending cheer and beauty. In this room hangs the portrait of a former trustee, Hon. Silas M. Clark. It is a fine conceit of Dr. Ament's, that of hanging the pictures of former presidents of the board in the different rooms.

The Students' Reception Room on the South side of the East corridor is in green and brown with Mission furniture. The draperies are to be ecru French curtains with heavy over draperies of buff Rajah silk. Over the mantel hangs the portrait of former President Sutton and there are fine engravings on the walls. The mantel ornaments, a candle-stick and vase, handsome pieces of bric-a-brac, and a Rogers' piece, "An Owl and Book" symbolizing Wisdom. "Cases" will please refer to the book when occupying this room. If unable to find the regulations they will be assisted by "Aunt Jane." There is an arched entrance in tunnel effect under the stairs leading into this room from the Main Hall at the rear of the elevator.

Transformation has taken place in the offices. The Registrar's room has burlaped walls in brown, rugs and draperies in ecru and brown with touches of red. The furniture brown leather, with oak

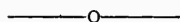
frames. There is a massive oak library table in elegant design. The desks and filing cases in both offices are of the same dark wood.

The Principal's office has green burlap-covered walls. The furniture is in black overstuffed leather. There is a Persian rug and rich Madras sill curtains. The electroliers are artistic as are all its appointments, and blsts of Froebel and Pestalozzi occupy "high places." In this room hangs Judge Elkin's picture, while that of A. W. Wilson hangs in the teachers' parlor, as yet overlooked by the fairy's wand.

Perhaps the most interesting metamorphosis to the student body is the transformation of "Rec Hall," remembered by the older Alumni as the Dining Hall. The old undulating, knotty floor has been covered by one of narrow maple boards laid diagonally, waxed into a mirror-like polish, making the "light fantastic" more of a pleasure than ever. The ceiling is tinted a sunshine color, the wood work in ivory white, the side walls papered in panel effect in colors brown and red with a wainscoting of golden brown. Fourteen graceful five-light brass chandeliers have been put in the room and buff scrim window draperies give a light and airy effect. There is a new piano in a handsome oak case for the students' use. This room is used by the Y. W. C. A. for their

weekly meetings, their parlors not accommodating the two hundred or more that attend these meetings. The decorations are so complete it will not be necessary hereafter to resort to yards and yards of cheese cloth in class colors to hide defects, using instead banners and pennants.

In all of these improvements Dr. Ament has had in view aesthetic culture, (without which the best individual lacks something), and the better appearance of the material side of the school that stands second to none in the State the aim of which is Progress along all lines.



MARRIAGES.

Miss Mary Gertrude Sampson, '02, was married Wednesday, July 24, 1907, at the Sampson home-stead, Washington county, to Mr. James Bunton White. Mr. White is a business man in Monessen, Pa., in which city the newly-married couple will reside.

The marriage of Miss Dorothy Hill, '97, and Mr. Homer Miller, both of Jeannette, took place in June. The wedding was participated in by relatives and many friends of the young couple.

Miss Ava S. Karstrap, '08, was married at her home, in Pittsburg, June 10, 1907, to Mr. Oswin Lowery Crawford, also of Pittsburg.

Miss Laura May Dickie was mar-

ried at the home of her parents, Mr. and Mrs. G. C. Dickie, of Indiana, Wednesday, July 4, 1907, to Dr. William Henry Nix. The home of Dr. and Mrs. Nix will be at Homer City, Pa.

The alumni will be interested to know that one of their number has come to the Normal School to live. When Mr. Heckel, head of the new History department, joined us in September, he brought with him as his bride, Miss Pearl Bash, '92.

Miss Helen E. Elkin, daughter of Judge Elkin, will be married to William Metcalf Armstrong, of Oakmont, Pa., on November 6, 1907. The plans for a large church wedding have been changed on account of recent deaths in the bride's family. The wedding will be a quiet home affair, only the two families and immediate friends being present.

Miss Josephine Rayburn Brown, '05, was married at her home in Parnassus to Mr. Edward Lewis Martin. She will be at home at 73 Orchard avenue, Sharon, Pa., after November 1.

Miss Ruth MacAnich, '04, was married September 19, 1907, in Los Angeles, California, to Mr. Zel E. Talbert. The home of Mr. and Mrs. Talbert is at 1236 Arnold street, Los Angeles, Cal.

Dr. Warren C. Mercer, of Philadelphia, and Miss Elsie Kebler,

daughter of Mr. and Mrs. George Kebler, were united in marriage on Wednesday afternoon at the home of Miss L. A. Dorren, at Asbury Park, N. J. Dr. and Mrs. Mercer left on Wednesday evening for a trip up the coast to Connecticut. After a short visit there, they will be at home to their friends at 1705 Arch street, Philadelphia.

Miss Dessa Marguerite Park and Mr. Wellington Bertolette Clark, former Normal students, were married at the home of the bride, in Westover, Pa., on Monday, September twenty-third. The young couple will make their home in Mahaffey, Pa., where Mr. Clark is assistant cashier of the Mahaffey National Bank.

Mr. Tillman Kulp Saylor, '96, was married to Miss Minerva Phillips, September 7, at Johnstown, Pa. Their new home will be at 327 Lincoln street, in that city.

give a summary of it. Instead we give some thoughts from it.

After a discussion of various definitions of education, Dr. Ament said he agreed with those who held that education is the influence of man upon man for the purpose of leading to the actualization of himself; that education is aiding in the self-evolution toward which every form of life from the lowest is tending. In speaking of courses of study, the speaker said that the education of the child should follow the same general lines which had marked the growth of the race as a whole, and that this growth should always tend toward the development of freedom, not license. This sense of law should develop until it reaches the spirit which prays, "Thy will be done on earth even as it is done in heaven".

The object of the address was to indicate the function of the Normal school.

Faculty Meetings.

It is the purpose of Dr. Ament to have Faculty Institute once a month for the discussion of the larger educational problems. At the first of these meetings Dr. Ament read the paper of the day, which treated of the function of the normal school.

It is impossible in our small space to reproduce the paper or even to

Owing to the over-crowded classes in the regular Normal course there are elementary and advanced classes in German taught in the Conservatory by teachers who have had years of German student life. A French class will be organized next term for the required amount of that work in the full music courses.

The Normal Herald

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INDIANA, PA., OCTOBER, 1907.

EDITORIALS

GREETINGS.

A new school year has well begun, the days are busy, strenuously, but joyously busy. Looking up from its work The Herald staff, through The Herald, sends out greetings to the alumni and friends of the school. We hope we can fulfill the purpose of the paper by creating a bond between the school and its alumni. May its pages prove interesting and helpful.

—O—

Change of Form.

The staff has decided upon certain changes in the form of The Herald and they hope to send the paper to its friends clothed in a new garment. The size of pages will be increased so as to allow a three-column arrangement, and it

is hoped that an attractive cover design can be secured before the next issue. The January number marks the beginning of a new volume, so the change contemplated will be timely.

—O—

Leading Articles.

We are pleased to offer in this issue of The Herald an article from the head of the department of mathematics. We feel sure that this departure from the old policy, of making The Herald simply a newsy sheet will be appreciated by its readers. In each subsequent number we shall have an article from some member of the faculty or other authority bearing immediately on the work of the different departments of the school. The immediately forthcoming articles will be on the requisites of a good textbook.

—O—

Article on Improvements.

We desire to call attention to the full and interesting article on the improvements at the Normal, by Mrs. Dorothy Cogswell. This article calls for careful reading by every friend of the institution.

—O—

Coming Articles on Track Athletics

We can also announce a series of articles by Mr. Jack on the training for track events. These contributions from an authority will be interesting and eminently helpful to students who desire to figure in this branch of athletics. Last year

Mr. Jack gathered together a track team which, in its first season, defeated a veteran rival.



New Members of the Faculty.

We wish to introduce to The Herald's readers three new members of the faculty who were secured after the catalog went to press: Mr. Leon E. Bell, the head of the new department of pedagogy; Mr. J. C. Smith, head of the department of mathematics, and Mr. Race, head of the commercial department. These are strong additions to the faculty.

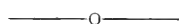


The Conduct of Chapel.

The old student has noted a change in the conduct of chapel. The plan of conducting chapel which is in use in most of the schools of normal, collegiate, or university rank, in America, has been introduced. This consists in each of the instructors leading the exercises in turn for one week. One instructor reads a passage from the Bible and leads in prayer. Another addresses the students on some live topic which is of interest to them, as teachers or as men and women.

This is of service to the teachers in broadening their education in a direction which men-of-affairs appreciate. To the students it is of value in giving them the advantage of the point of view of some thirty teachers who have visited many

lands and taken a broad view of life. The plan is democratic, modern, and helpful.



MATTERS MUSICAL.

The Conservatory opened in September with an enrollment of one hundred and twenty—a larger enrollment for the first week than for the entire fall term last year.

The practice rooms of the Conservatory are all in use and unless some provision is made, no more students can be accommodated with practice periods in the building.

Two new pianos have been added and another has been ordered. There are upwards of thirty taking full courses in the supervisor's class in public school music, showing a rapidly growing interest in this phase of the music profession.

The following is the program of a recital given by the faculty of music opening the "Lecture Course," with Misses Mabel Fehmer soprano, Alice Crane pianist, Mr. William Wrigley violinist:

If more students enroll another piano teacher will be added the present term.

The Choral Society, with J. Wood Clark as president, has begun its season's rehearsals on Monday evenings and will be larger and stronger than last year. "The Cre-

ation" is the major work to be presented at a music festival during the winter term, with prominent soloists and the Pittsburg Festival Orchestra, under the auspices of the Conservatory.

The "Madrigal Club" of women's voices is rehearsing under Miss Cogswell's direction, and Miss Fehmer will, during the winter term, put on an operetta for ladies' voices.

The Opera Club will begin rehearsals soon upon the old ballad opera of Balfe's, "The Bohemian Girl."

Prof. Wrigley, in charge of the string department, secured after the catalog went to press, has had superior training in this country and abroad. His repertoire is large and playing artistic. His class of pupils is rapidly growing.

ALUMNI NOTES.

Below is given the names of most of the class of '07 and their present addresses:

Laura A. Adams, Windber.
 Florence A. Allen, Windber.
 Leola Alter, Training for nurse.
 Harriet B. Barnes, Uniontown.
 Hannah F. Bowers, Leechburg.
 Irma R. Brown, Big Run, Pa.
 Bertha Brownlee, Wilson College (student).
 Grace I. Buente, Edgeworth.
 Mariam Daft, McKeesport.
 Helen H. Dill, New Kensington.

Helen R. Drew, McKeesport.
 Myrtle M. Foale, Leechburg.
 Mary E. Glosser, Irwin.
 Vida R. Grumblin, Carnegie.
 May A. Grundy, Millvale.
 Marie H. Hawkens, West Homestead.

Mary V. Hill, Woodrow, Washington County.

Clara M. Kirschner, Irwin.
 Edith M. Knox, Du Bois.
 Ida J. Kulms, Salem.
 Anna E. Laughlin, Irwin.
 Margaret Marshall, Johnstown.
 Matilda R. Melville, Beechview.
 Mary E. Murray, Johnstown.

Josephine McGaw, West View.
 Nannie J. McMillan, Conemaugh.
 Mary G. Quinn, Johnstown.
 Ivan J. Reed, Punxsutawney.
 Emma E. Reinhardt, New Kensington.

Zola R. Rodkey, Spangler.
 Margaret M. Roose, Irwin.
 Dora E. Schall, Township School, near Jeannette.

Jesse Shomo, Johnstown.
 Florence N. Stahl, Livermore.
 Clara M. Stapel, Edgeworth.
 Hazel M. St. Clair, Kindergarten, Indiana.

Martha T. Stuchul, Wilson College (student).

F. Helen Sullivan, Allegheny.
 M. Ethel Swickard, Steubenville, Ohio.

Margaret Thomson, Swissvale.
 A. May Williamson, Livermore.

Emma Williamson, New Kensington.

Ella B. Wingert, Marchand.

Jane G. Wyman, Allegheny.

Mary E. Zanchi, Connellsville.

Wallace E. Hopkins, Marion Center (Principal of Schools).

William C. McKee, Indiana, (Assistant Principal).

John M. Pierce, Indiana State Normal, (Assistant in Mathematics).

Hal. L. Speedy, Allegheny, student at Western Univ. of Penna.

William D. Summerville, Hickory, Pa.

D. Lester Winger, Indiana, (Assistant Principal of West End School).

Madge Butler, Vandergrift.

Katheryn Crusan, McKeesport.

Music Graduates.

Nelle Hetrick, Indiana (Supervisor of Music).

Leona Styles, Benton, Pa., (Private Teacher).

Julia Lelebridge, Mt. Pleasant, (Supervisor of Music).

Miss Phillis Moorhead, '04, who spent the last two years teaching in the public schools of Indiana, has accepted a position in Lansing, Michigan.

Miss Julia Hunt, '96, visited the Normal a short time ago, bringing her younger sister to us as a student.

Alumni.

Miss Pearl Price, of Allegheny, spent the first two weeks of the term visiting old school friends at the Normal.

Prof. Will Grant Chambers, formerly of the Normal School, has been secured to give a series of lectures on psychology and child study in Denver during the coming winter. Prof. Chambers now holds the chair of physiology in the Colorado Normal School at Greeley.

We are sorry to announce the death, after a year of continued illness, of Mrs. Anna Barnes, of Uniontown. She was the mother of Lydia Barnes, '00, and Harriet Barnes, '07.

Miss Nellie L. Rhule, '01, who is critic teacher of the first and second grades in the training school at Fiske University, was a recent visitor at the Normal. Miss Rhule is preparing herself to enter the foreign missionary field.

Berlin Empfield, '06, is assistant principal in the Blairsville High School. He is also coach of the High School football team.

Mr. Arthur W. Wilson, '01, who is well known as a writer of athletics, having been employed in that capacity by the Johnstown Journal for the past two years, has returned to Indiana, his home town, where he assumes the position of news ed-

itor on the Indiana Daily and Weekly Gazette.

W. C. Crawford, '05, has been re-elected to his position as instructor at Morganza.

Miss Mary Blanche Cooper, '86, visited her home in Pittsburg this summer. Miss Cooper is at present principal of a school in Seattle. Prior to this she was principal of the city schools in Salt Lake City. She made a tour of Canada during the summer.

Mr. Lawrence Vail, a recent student, is now attending the State Forestry Academy, at Mount Alto, Pa.

Miss Mary Grundy, '07, was elected as a teacher in Millvale, but she took fever and was able to teach only a single half-day.

Miss Mary Crombie, a graduate and later a teacher at Indiana, has accepted the position of Professor of Mathematics in the Pittsburg Academy. For the last two years she has taught successfully at Redlands, Cal.

Miss Cloe Myers, '04, sails from New York on November 2 for Kyabe, Africa, where she enters the missionary field. Her only sister is now a missionary in India.

We are glad to report that Elizabeth Harrison, '05, who was obliged to go to the south for her health, has returned much improved.

Miss Nell Pierce, '05, has resigned her position as teacher in the Irwin Avenue School, Allegheny, to take a special course in the Western Pennsylvanian College for Women.

No difference what summer resort you may visit, you will always find past or present students of the Indiana Normal. Of course this is markedly true of Chautauqua. One day this summer Miss Leonard had inserted a notice in the Chautauqua Herald that all Normal people who might then be present on the grounds should meet at the dock the next afternoon at three-thirty o'clock to go for a boat ride and a fish dinner. Promptly at the time and place named fifty people assembled. Many classes were represented from the earlier to the later ones. Anna Nicklas, of the present class, did her part well in looking after the younger set. Fortunately that day Miss Leonard had just received one of the handsome new catalogs and was so pleased with it herself that she passed it around after the guests were on the boat.

Soon one could hear everywhere through the party expression of approval and admiration. A fine dinner was served at Sheldon Hall, a good boat's ride down the lake.

After dinner the party delighted itself by promenading on the verandas and about the grounds of the beautiful resort. At the setting of the sun the party started homeward. The pleasant talk, the songs, and the friendly feeling helped to make it a ride to be remembered. Normal people love to meet together, and they know how to make a good time. May no summer pass at any resort where they are to be found without such a coming together.

"A Dutch Treat" it is, to be sure, but that helps to give it the real school flavor.

Charles Ray, '02, who was principal of the Saltsburg schools for three years, has secured a position with the Mitchell Watson Coal & Coke Company.

Florence Wilson, '02, resigned her position as high school teacher at Saltsburg to accept a similar position at New Castle.

Laura Irvine, '05, spent her summer vacation at the home of her sister, Mrs. Sidney Morton, of Watertown, Conn. Mrs. Morton is our Mildred Irvine, '05.

Prof. J. P. Wiley, '88, who so successfully superintended the Connelville schools during the past ten years, is now superintendent of the graded schools in Irwin.

Miss Madge Cameron, '03, and Miss Hazel St. Clair, '07, are con-

ducting a kindergarten in Indiana, Pa.

Mr. Clarence A. McKee, '00, a post graduate in nineteen hundred four, returned home in August from the Philippine Islands, where he had been teaching for the past three years. For the first two years Mr. McKee was superintendent of schools about five hundred miles from Manila. Last year he taught in Manila. He enjoyed his stay in the East and regards the conditions as encouraging. It is his opinion that the United States should hold the Philippine Islands for at least one hundred years longer. By that time the Phillippinos may be able to govern themselves. Mr. McKee went to the Philippines by way of San Francisco, and on his return trip he traveled through China, India, Egypt, Italy, the Holy Land, France, Germany and England, thus completing the tour of the world. After a few weeks' visit at his home in Indiana, Mr. McKee left for the University of Missouri. Upon completing the course there he expects to make engineering his profession.

—o—

Mr. Cogswell has been engaged as Instructor at a number of Teachers' Institutes in this state, and he addressed the State Teachers' Association at Hartford, Conn., in October.

—o—

The Reverend Geo. Holmes, who has been pastor of the Methodist church at Indiana for four years, was transferred by the recent conference to Irwin, Pa. He is a man of high scholarship, great versatility of talent and genial personality.

A list of Normal students attending colleges:

'93—Ellen A. Morrow.

'03—Viola Simpson.

'04—Elbie Creps, Paul Mack, Audley Mabon, Florence Copeland.

'05—Frank Snyder, Thos. Hill, Ross Hossack, Edith Stumpf, Oliver Riethmiller.

'06—Mac Daugherty, Frank T. Hamill.

'07—Bertha Brownlee, Martha Stuchul, Hal Speedy.

—o—

Mr. Cogswell's Institute Song Book is having a very large sale, orders coming in constantly for institute use and from school teachers and principals of high schools. The same applies to the "Pennsylvania Song", dedicated to ex-Supt. Henry Houck.

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ATHLETIC NOTES.

The football season began with Mr. Van Oot as coach. After two weeks of hard practice the boys played their first game at Punxsutawney, with the high school team. Neither side scored. The spectators crowded upon the field and made the game slow and uninteresting. At one time during the game the Normal team had the ball within a few inches of their opponents' goal.

The Normal's regular back field were out of the game on account of injuries sustained in the practice game with Latrobe the week before. The players did well considering the muddy field. October 7, the Normals played Bellefonte Academy on the State College grounds. The only scoring that was done was from a field goal kicked by the captain of the Belle-

fonte. The Bellefonte team played a clean game. Ed Long was injured during the play in the second half and was replaced by Schugars, making a substitute back field.

The following members are at the training-table:

Ed. Long,	C. Galey,
J. Camp,	E. Shryock,
N. Douglas,	F. Coulter,
S. Hartman,	F. Rosco,
M. Smith,	A. Spears,
T. Hamill,	S. Rodkey,
J. L. Smith,	C. Morrison,
	L. Schugars.

—o—

The following is the schedule for 1907:

October 1, Latrobe professional at Indiana.

October 5, Normal at Punxsutawney.

October 7, Normal at Bellefonte.

October 14, Punxsutawney at Indiana.

October 19, Normal at Altoona.

October 21, Normal at Gallitzen.

October 28, Bellefonte at Indiana.

November 4, Normal at Slippery Rock.

November 14, Normal at Kiski.

November 18, Reynoldsville at Indiana.

November 25, Kiski at Indiana.

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Manual Training Notes.

The attendance in the Manual Training department is quite satisfactory, in fact it is somewhat crowded by the influx of students, making it necessary to work two at a bench. The enrollment is 130. The work includes Sloyd, bench work, weaving, basketry, and cabinet work. Special attention is given to models which will assist the students when they come to teach.

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Following its annual custom, the Remington Typewriter Company has just published figures showing the number of stenographers placed in positions by the company's free employment departments throughout the country in the last year. Through the medium of these departments stenographers in the leading cities were placed as follows: New York, 10,040; Chicago, 6,030; St. Louis, 2,633; Boston, 2,198; Philadelphia, 2,129; San Francisco, 1,795; Pittsburg, 1,630; Kansas City, 1,605; Cincinnati, 1,113, and Dallas, 1,048. In eight other cities the thousand mark was almost reached.

These figures are record-breaking, showing unprecedented demand for stenographic help. Even in San Francisco, despite the earthquake disaster, more stenographers were placed in positions than ever before and the Remington office in San Francisco reported that the demand for typewriter operators exceeds the supply by more than two to one. The continued prosperity of the country, the company points out, is clearly reflected in the increasing demand of the business world for more operators of writing machines.—"New York Press."

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